

What is claimed is:

1. A high speed display processing system for
5 simulating in advance at a high speed on a server
 side only display data which can be visually
 recognized as a server-side visual simulation,
 comprising:
 a display data extraction unit extracting each
10 display data element of a display data set in a
 system for a long-haul transmission of the display
 data set from a server to a client;
 a higher display data subset extraction unit
 checking an overlap state between the display data
15 elements, and extracting a portion of a higher
 display data element whose overlap state is to be
 displayed when the overlap state is detected;
 a calculation unit compressing or expanding
 the higher display data element corresponding to a
20 significant size and resolution of a display device
 of the client, and calculating in advance
 coordinates of a two-dimensional display image of
 each display data element;
 a storage unit storing only visually
25 recognized display data extracted using each of

said units or composed by a calculation; and

a transmission unit transmitting the composite display data read by said recognition unit to the client.

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2. A display processing apparatus which converts generated original image data and transmits the converted data to a display device, comprising:

an extraction unit extracting only a display
10 result to be displayed on the display device as display data from the original image data; and

a transmission unit transmitting the display data to the display device.

15 3. The apparatus according to claim 2, wherein said display data is roughly visualized from the original image data.

4. The apparatus according to claim 2, wherein
20 said extraction unit extracts data of three-dimensional graphics as the display data to be displayed on the display device in the three-dimensional graphics in the original image data.

25 5. The apparatus according to claim 2, wherein

said extraction unit divides the original image data into a plurality of areas, and allows a plurality of independent process units to process the areas, thereby performing extracting processes
5 in parallel.

6. A storage medium storing a program used to direct a computer to convert generated original image data and transmit the converted data to a
10 display device, comprising the steps of:

extracting step only a display result to be displayed on the display device as display data from the original image data; and

transmitting step the display data to the
15 display device

7. The storage medium according to claim 6, wherein

said display data is roughly visualized from
20 the original image data.

8. The storage medium according to claim 6, wherein

said extracting step extracts data of three-
25 dimensional graphics as the display data to be

displayed on the display device in the three-dimensional graphics in the original image data.

9. The storage medium according to claim 6,
5 wherein

said extracting step divides the original image data into a plurality of areas, and allows a plurality of independent process units to process the areas, thereby performing extracting processes
10 in parallel.

10. A display processing method for converting generated original image data and transmits the converted data to a display device, comprising the
15 steps of:

extracting only a display result to be displayed on the display device as display data from the original image data; and

transmitting the display data to the display
20 device.

11. The display processing method according to claim 10, wherein

said display data is roughly visualized from
25 the original image data.

12. The display processing method according to claim 10, wherein

5 said extracting step extracts data of three-dimensional graphics as the display data to be displayed on the display device in the three-dimensional graphics in the original image data.

13. The display processing method according to claim 10, wherein

10 said extracting step divides the original image data into a plurality of areas, and allows a plurality of independent process units to process the areas, thereby performing extracting processes
15 in parallel.